

LINEAR-IN-DECIBEL VARIABLE GAIN AMPLIFIER

Abstract

A linear-in-decibel variable gain amplifier used for receiving an input voltage and generating an output voltage according to a first controlling voltage and a second controlling voltage. A voltage gain, that is, the ratio between the output voltage and the input voltage, has a denominator that is a pure exponential function, and the value of the pure exponential function is determined by the first controlling voltage and second controlling voltage.